

垂花粉口兰, 缅甸兰科一新种

陈心启 罗毅波

(中国科学院植物研究所系统与进化开放研究实验室 北京 100093)

Pachystoma nutans, an undescribed orchid from Myanmar

CHEN Sing-Chi LUO Yi-Bo

(Laboratory of Systematic and Evolutionary Botany, Institute of Botany, the Chinese Academy of Sciences, Beijing 100093)

Key words *Pachystoma nutans*; New species; Myanmar; Key

关键词 垂花粉口兰; 新种; 缅甸; 检索表

Pachystoma is a small orchid genus of some four species ranging from India and southern China through Indochina, Malaysia and Indonesia to the Philippines, New Guinea and Caledonia. The type specimen of this new species was found in the herbarium of the Royal Botanic Garden, Edinburgh (E) mixed with unidentified specimens of *Eulophia* during the senior author's visit there late in June of 2001. Many specimens of *Pachystoma*, as well as some of *Eulophia*, lack leaves probably due to the similarity of their leaves to those of some kinds of sympatric grasses, such as *Imperata*, and therefore being overlooked (Schlechter 1914), or the absence of leaves during the period of flowering. In these cases, some species of *Pachystoma* were said to be saprophytic, and others misidentified as belonging to *Eulophia*. For example, *Eulophia hirsuta* J. Joseph et E. Vojravelu and *Eulophia hirsuta* T. P. Lin established in 1978 and 1986 respectively proved later to be true *Pachystoma*: *Pachystoma hirsutum* (J. Joseph et E. Vojravelu) C. S. Kumar et K. S. Manilal (1987) and *P. ludaoense* S. C. Chen et Y. B. Luo (2002). Both are quite distinct species, though Seidenfaden (1986) and Su (2000) considered them to be conspecific with *Pachystoma pubescens*. The new species is very similar in habit to *P. hirsutum* of southern India, but in floral structure more related to *P. pubescens*. From the latter it differs by having two nodding flowers on a very glabrous rachis, and a lip constricted slightly below the middle to form three lobes (the mid-lobe longer than the disc). A key to the species of *Pachystoma* is provided as follows:

1. Lip trilobed near the apex; mid-lobe very small, without fleshy-crested lamellae on its upper surface 硬毛粉口兰 *P. hirsutum* (J. Joseph et E Vojravelu) C. S. Kumar et K. S. Manilal
1. Lip trilobed near the middle; mid-lobe large, with five fleshy-crested lamellae on its upper surface.
 2. Subterraneous rhizome ellipsoid or subglobose; mid-lobe of lip with long hairs along the basal margins 绿岛粉口兰 *P. ludaoense* S. C. Chen et Y. B. Luo
 2. Subterraneous rhizome subcylindric or fusiform, sometimes geniculate; mid-lobe of lip without long hairs along the basal margins.
 3. Inflorescence two-flowered; rachis very glabrous; flowers nodding; lip trilobed slightly below the middle 垂花粉口兰 *P. nutans* S. C. Chen et Y. B. Luo
 3. Inflorescence usually many-flowered; rachis more or less pilose; flowers mostly horizontally spreading; lip trilobed above the middle 粉口兰 *P. pubescens* Bl.

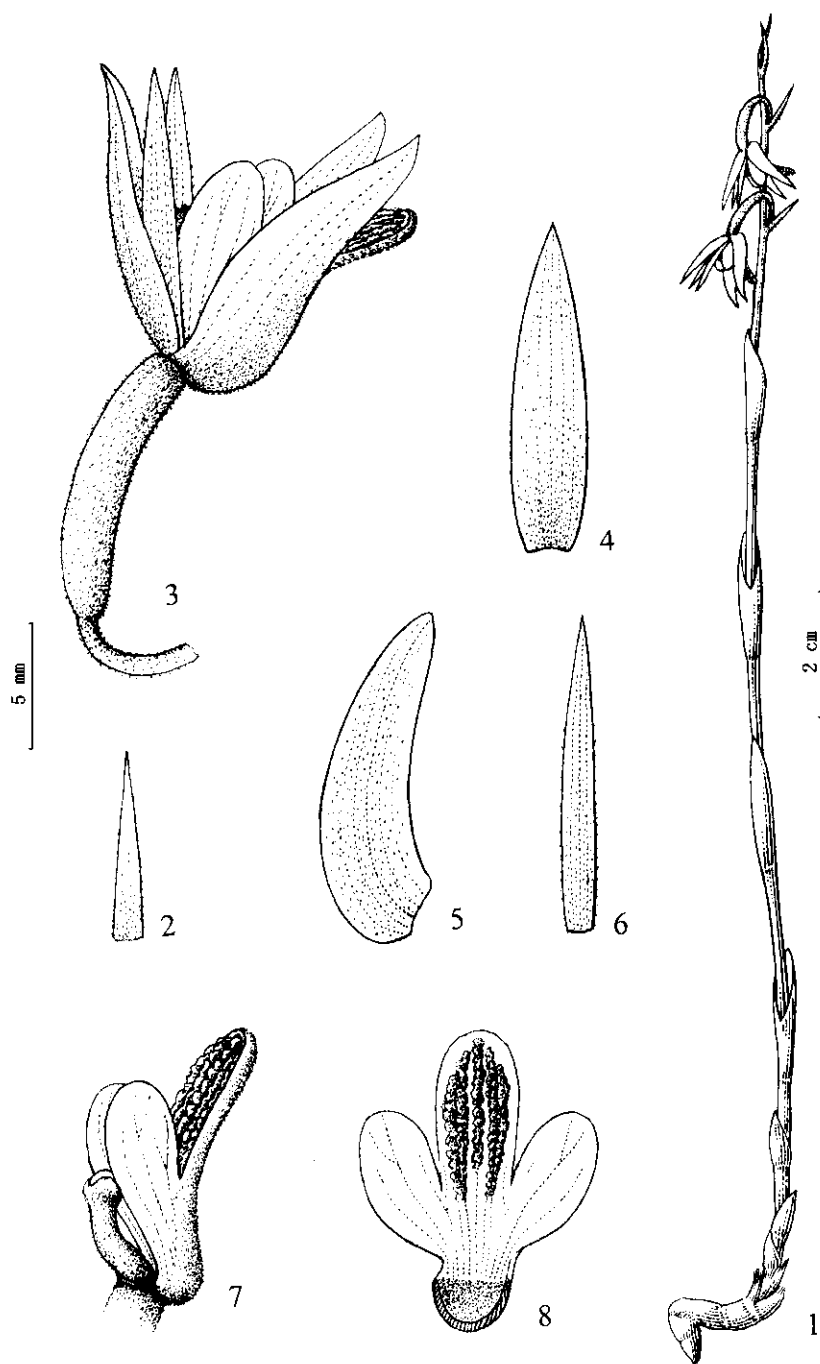


图1 垂花粉口兰 1. 植株; 2. 花苞片, 正面观; 3. 花; 4. 中萼片, 正面观; 5. 侧萼片, 正面观; 6. 花瓣, 正面观; 7. 唇瓣与蕊柱, 侧面观; 8. 唇瓣, 正面观。(蔡淑琴 绘)

Fig. 1 *Pachystoma nutans* S. C. Chen et Y. B. Luo 1. Plant; 2. Bract, front view; 3. Flower; 4. Dorsal sepal, front view; 5. Lateral sepal, front view; 6. Petal, front view; 7. Lip and column, side view; 8. Lip, front view.

垂花粉口兰 新种 图1

Pachystoma nutans S. C. Chen et Y. B. Luo, sp. nov. Fig. 1.

Species nova *Pachystomati pubescenti* Bl. affinis, a quo differt racemo bifloro, rhachi glaberrima, floribus nutantibus, labello infra medium trilobo, lobo intermedio disco paulo longiore.

Planta 21 cm longa. Rhizoma irregulariter cylindricum, geniculatum, 2.5 cm longum, 5 ~ 7 mm in diametro. Caulis glaberrimus. Folia ignota. Racemus 3.7 cm longus, laxe biflorus, rhachi glaberrima; bractea lineari-lanceolatae, 5 ~ 7 mm latae; pedicellus cum ovario 1.3 ~ 1.5 cm longus, albo-pubescent; flores nutantes, 1 ~ 1.2 cm longi; sepalum intermedium anguste elliptico-oblongum, 1.2 cm longum, 2.7 mm latum, ea lateralia obliqua; petala linearia, 1.2 cm longa, 1.2 mm lata; labellum ambitu orbiculari-ovatum, 9 mm longum, 8.5 mm latum, paulo infra medium trilobatum, basi saccatum, lobis lateralibus fere oblongo-obovatis 5 mm longis, 2.5 mm latis, lobo intermedio suboblongo 5 mm longo, 2.5 mm lato lamellis 5 carnosio-cristatis e basi ad apicem decurrentibus ornato, disco incrassato-nervoso dense puberulo, sacco 1.5 ~ 2 mm longo et lato; columna ca. 5 mm longa, puberula.

Myanmar (缅甸). Nawnglen, Mang Yaw (23°N, 98°05'E), 1921-04-14, J. Kingdon Ward 3762 (holotype, here designated, E).

Plant 21 cm tall; rhizome irregularly cylindric, geniculate, 2.5 cm long, 5 ~ 7 mm thick, with a few scale-shaped sheaths towards the tip. Stem erect, very glabrous, sheathed; sheaths five, membranous, 1.8 ~ 2.1 cm long, tubular below, spreading above, many-nerved, glabrous. Leaves unknown. Raceme 3.7 cm long, loosely 2-flowered; bracts linear-lanceolate, 5 ~ 7 mm long, membranous, hairy at the margins and near the dorsal base; pedicel and ovary 1.3 ~ 1.5 cm long, white-pubescent; flowers nodding, pale cream, faintly flushed with pink, the lip bright yellowish-green; dorsal sepal narrowly elliptic-oblong, 1.2 cm long, 2.7 mm wide, obtuse at apex, 5-nerved, puberulous on both surfaces; lateral sepals similar to the dorsal one but oblique; petals linear, 1.2 cm long, 1.2 mm wide, acuminate at apex, 3-nerved, puberulous on both surfaces, ciliate; lip orbicular-ovate in outline, 9 mm long, 8.5 mm wide, slightly puberulous dorsally, constricted slightly below the middle to form three large lobes, saccate at base; lateral lobes more or less oblong-obovate, 5 mm long, 2.5 mm wide, mid-lobe suboblong, 5 mm long, 2.5 mm wide, with five fleshy-crested lamellae extending from base to apex; disc thickened-nerved, densely puberulous; sac 1.5 ~ 2 mm long and wide; column ca 5 mm long, incurved, slightly dilated at the apex, puberulous.

This new species is allied to *Pachstoma pubescens* Bl., from which it differs by having a two-flowered inflorescence, very glabrous rachis, nodding flowers and the lip trilobed below the middle.

The species is known only from the type collection.

Acknowledgment The senior author wants to express his sincere thanks to the Kadoorie Farm & Botanic Garden for a grant to visit and study the orchid collections in European herbaria, to the curators of E for making the specimens available, to Dr. Y. Z. Wang for his kind help, and to Mrs. Cai Su-qing for preparing the drawing of this new species.

参 考 文 献

- Chen S-C (陈心启), Luo Y-B (罗毅波), 2002. On the identity of *Eulophia hirsuta* T. P. Lin (Orchidaceae). *Acta Phytotax Sin*, 40(2): 139 ~ 140
- Kumar C S, Manilal K S, 1987. A synopsis of *Ipsea* (Orchidaceae). *Kew Bull*, 42(4): 937 ~ 943
- Schlechter R, 1911 ~ 1914. Die Orchidaceae von Deutsch-Neu-Guinea. *Feddes Repert Spec Nov Regni Veg Beih*, 1: 1 ~ 1079
- Seidenfaden G, 1986. Orchid genera in Thailand XIII, thirty-three epidendroid genera. *Opera Bot*, 89: 1 ~ 216
- Su H J, 2000. Orchidaceae. In *Flora of Taiwan* (ed. 2). Taipei: Taiwan University. 5: 729 ~ 1086

(责任编辑 徐黎)